Space Weather Workshop

Millennium Hotel – Boulder, CO April 13 - 17, 2015

Poster Abstracts

Posters may be on display from Tuesday morning through Thursday afternoon. We request that authors be in attendance at their posters during the poster session on the day indicated below.

General Space Weather Activities and Operational Services (Tuesday)

Knipp, Delores (University of Colorado, Boulder)

Poster Number: G1

Poster - Space Weather Journal

Schrijver, Karel (Lockheed Martin Advanced Technology Center)

Poster Number: G2

Poster - Understanding space weather to shield society: A global road map for 2015-2025

commissioned by COSPAR and ILWS

Jonas, Seth (IDA) Poster Number: G3

Poster - A History of Federal Involvement in Space Weather Forecasting

Cade, Trey (Baylor University)

Poster Number: G4

Poster - The Origin of "Space Weather"

De la Luz, Victor (UNAM Instituto de Geofisica)

Poster Number: G5

Poster - The Infrastructure of the Mexican Space Weather Service (SCiESMEX)

Gonzalez Esparza, J. Americo (Instituto de Geofisica, Universidad Nacional Autonoma de

México)
Poster Number: G6

Poster - Mexican Space Weather Service (SCIESMEX)

Engell, Alexander (Weather Analytics)

Poster Number: G7

Poster - Space Weather Information System

Solar and Interplanetary Research and Applications (Tuesday)

McIntosh, Scott (National Center for Atmospheric Research)

Poster Number: S1

Poster - On The Seasons Of Space Weather

Shibata, Kazunari (Kyoto University)

Poster Number: S2

Poster - Superflares on Solar type Stars and Their Implications on the Possibility of Superflares

on the Sun

Watari, Shinichi (National Institute of Information and Communications Technology)

Poster Number: S3

Poster - Statistics of events defined by UGEOA code and NOAA space weather scales

Winter, Lisa (AER)

Poster Number: S4

Poster - Developing an Empirical Model for Predicting Solar Energetic Particle Events

Lee, Kangjin (Kyung Hee University)

Poster Number: S5

Poster - Probabilistic Forecast Models of Solar Flares and CMEs

Leka, KD (NWRA)

Poster Number: S6

Poster - The NWRA Discriminant Analysis Flare Forecasting System (DAFFS)

Guerra Aguilera, Jordan (The Catholic University of America)

Poster Number: S7

Poster - Ensemble Forecasting of Major Solar Flares

Hock-Mysliwiec, Rachel (Air Force Research Laboratory)

Poster Number: S8

Poster - Modeling the EUV Irradiance of Solar Flares

Henney, Carl (AFRL)

Poster Number: S9

Poster - Forecasting Solar UV & F10.7 with ADAPT

Jackson, Bernard (University of California, San Diego)

Poster Number: S10

 $Poster-A\ Determination\ of\ the\ North-South\ Heliospheric\ Magnetic-Field\ Component\ from$

Inner-Corona Closed-Loop Propagation

Den, Mitsue (National Institute of Information and Communications Technology)

Poster Number: S11

Poster - REPPU (REProduce Plasma Universe) code for space weather simulators developed at NICT: 3-dimensional MHD simulation codes for the solar surface and global solar wind

structure

Nikolic, Ljubomir (Natural Resources Canada)

Poster Number: S12

Poster - Development of a solar wind forecast model

Corona-Romero, Pedro (SCiESMEX, Universidad Nacional Autonoma de Mexico)

Poster Number: S13

Poster - SCiESMEX, fast forecasting of space weather through modeling energetic solar storms

Murphy, Matthew (RIT)

Poster Number: S14

Poster - Statistical Study of Interplanetary Coronal Mass Ejctions with Strong Magnetic Fields

Parker, Linda (Jacobs Technology)

Poster Number: S15

Poster - The Advanced Composition Explorer Shock Database and Application to Particle Acceleration Theory

Rowland, William (CIRES/NGDC)

Poster Number: S16

Poster - DSCOVR Archive and Retrospective User Access

Biesecker, Douglas (NOAA)

Poster Number: S17

Poster - How DSCOVR Will Perform During Extreme Space Weather

Cash, Michele (University of Colorado)

Poster Number: S18

Poster - Development of an Operational L1 to Earth Delay Time Product

Darnel, Jonathan (CIRES)

Poster Number: S19

Poster - Demonstration of GOES-R Solar Imagery Products

Fontenla, John (NorthWest Research Associates)

Poster Number: S20

Poster - Status and Latest Improvements to SERFS

Ionosphere Research and Applications (Wednesday)

Berdermann, Jens (German Aerospace Center)

Poster Number: I1

Poster - Provision of value added services within the ESPAS system

Atulkar, Roshni (National Institute of Technical Teachers' Training and Research, India)

Poster Number: I2

Poster - Impact of Geomagnetic disturbances on Ionospheric critical frequency (foF2)

Deng, Yue (University of Texas at Arlington)

Poster Number: I3

Poster - Analysis of equatorial F-region vertical neutral winds from Brazil FPI observations

Gentile, Louise (Air Force Research Laboratory)

Poster Number: I4

Poster - C/NOFS Thermospheric Research and Reentry Experiment (T-RREX)

Budzien, Scott (Naval Research Laboratory)

Poster Number: I5

Poster - Next-generation SSULI+ Sensor for Operation Space Weather Applications

Comberiate, Joseph (JHU/Applied Physics Laboratory)

Poster Number: I6

Poster - Three-Dimensional Ionosphere and Scintillation Data Products with DMSP/SSUSI

Dandenault, Patrick (JHU/Applied Physics Laboratory)

Poster Number: I7

Poster - Remote Sensing of the Ionosphere: Operational Space Weather from DMSP/SSUSI

Zhang, Yongliang (JHU/Applied Physics Laboratory)

Poster Number: I8

Poster - Real-time identification of radar auroral clutter using SSUSI data

Schaefer, Robert (JHU/Applied Physics Laboratory)

Poster Number: 19

Poster - UV Imaging of Space Weather

Azeem, Irfan (ASTRA)

Poster Number: I10

Poster - Ground-Based GPS TEC Measurements of Traveling Ionospheric Disturbances Produced by Tropospheric Weather and Seismic Phenomena

Azeem, Irfan (ASTRA)

Poster Number: I11

Poster - Recent Results of Phase Scintillation and TEC from a Latitude Chain of GPS Receivers in Alaska

Pilinski, Marcin (ASTRA)

Poster Number: I12

Poster - Ensemble Assimilation Using First-Principles Models as a Tool for Three-Day Space Weather Forecasts

Wang, Houjun (University of Colorado, Boulder)

Poster Number: I13

Poster - Ionospheric Forecast during Sudden Stratospheric Warming Using the IDEA Model

Maruyama, Naomi (NOAA/NWS)

Poster Number: I14

Poster - Ionosphere Plasmasphere Electrodynamics (IPE) model development for space weather application

Hsu, Chih-Ting (NOAA/NCU)

Poster Number: I15

Poster - Global ionospheric specification and forecasting by inferring unobserved thermospheric and ionospheric state variables via an Ensemble Kalman Filter

Chen, Weihan (National Cheng Kung University)

Poster Number: I16

Poster - Global ionosphere monitoring and forecast using data assimilation of FORMOSAT-3/COSMIC and GPS data

Matsuo, Tomoko (NOAA/NWS)

Poster Number: I17

Poster - Predictability and Ensemble Modeling of the Space-Atmosphere Interaction Region

Meehan, Jennifer (Utah State University)

Poster Number: I18

Poster - Ionospheric Scale Height and its Relationship to Upper Atmospheric Neutral and Plasma Temperatures

Yudin, Valery (University of Colorado)

Poster Number: I19

Poster - Designing OSSE in the Whole Atmosphere Models: Analysis of GOLD and ICON Observations for Near Real Time Space Weather Predictions

Shim, Ja Soon (CUA/NASA GSFC)

Poster Number: I20

Poster - Modeling and validation of neutral density in higher altitude regions

McGranaghan, Ryan (University of Colorado, Boulder)

Poster Number: I21

Poster - A fast, parameterized model of the upper atmospheric ionization, densities, and conductivity

Wu, Qian (National Center for Atmospheric Research)

Poster Number: I22

Poster - Thermospheric Wind Observation and Space Weather Research at NCAR

Stohl, Emily (University of Colorado, Boulder)

Poster Number: I23

Poster - Global Scale Views of Upper Atmosphere Power Input and Output

Kilcommons, Liam (University of Colorado, Boulder)

Poster Number: I24

Poster - AtModExplorer: an open source tool for visually exploring (empirical) atmospheric models

Magnetosphere Research and Applications (Thursday)

Fox, Nicola (JHU/Applied Physics Laboratory)

Poster Number: M1

Poster - Space Weather with the Van Allen Probes

Green, Janet (Space Hazards Applications)

Poster Number: M2

Poster - Testing Assumptions Underlying Radiation Belt Models

Woodroffe, Jesse (Los Alamos National Laboratory)

Poster Number: M3

Poster - The LANL SHIELDS Project

Nagatsuma, Tsutomu (National Institute of Information and Communications Technology)

Poster Number: M4

Poster - Development of NICT's MeV electron forecast model through the outer radiation belt

Nagatsuma, Tsutomu (National Institute of Information and Communications Technology)

Poster Number: M5

Poster - Initial Observations of Space Environment Data Acquisition Monitor (SEDA) on Board Himawari-8

Golightly, Michael (Assurance Technology Corp)

Poster Number: M6

Poster - Design, calibration and specifications of the Space Environment In-Situ Suite (SEISS) space weather instruments for the GOES-R program

Yi, Kangwoo (Kyung Hee University)

Poster Number: M7

Poster - Dependence of spacecraft anomalies at different orbits on electron/proton particle flux

Meier, Matthias (German Aerospace Center)

Poster Number: M8

Poster - A space weather index for the radiation field at aviation altitudes

Matthiä, Daniel (German Aerospace Center (DLR))

Poster Number: M9

Poster - PANDOCA - Professional AviatioN DOse CAlculator

Phillips, Tony (spaceweather.com)

Poster Number: M10 Poster - Rads on a Plane

Tobiska, W. Kent (Space Environment Technologies)

Poster Number: M11

Poster - Operational advances for atmospheric radiation dose rate specification

Kress, Brian (NOAA/NGDC)

Poster Number: M12

Poster - Geomagnetic cutoff response to variations in magnetospheric current systems

Park, Eunsu (Kyung Hee University)

Poster Number: M13

Poster - Observational test of magnetopause location models and nowcast of geosynchronous magnetopause crossings

Gannon, Jennifer (Computational Physics Inc.)

Poster Number: M14

Poster - AVERT model for GIC Hazard Analysis

Rigler, Josh (USGS)

Poster Number: M15

Poster - Dynamic geomagnetic hazard maps in space weather operations

Zanetti, Lawrence (JHU/Applied Physics Laboratory)

Poster Number: M16

Poster - Geomagnetic Disturbances – Prediction and Verification